

PROBLEM SOLVING

Set A

Compiled by members of the TEAM project
"Teaching Excellence and Mathematics"

Department of Public Instruction
301 N. Wilmington Street
Raleigh, NC 27601-2825

Michael E. Ward, Superintendent

Original funding through D. D. Eisenhower
Mathematics and Science Education Program

There are many commercial resources available to challenge students to become better problem solvers. This is a collection of some of our favorite problems.

You might consider allowing students to work with partners. Many of these problems are best solved with calculators. All of these problems lend themselves to students telling and writing about their thinking.

Consider expanding this problem-solving deck by adding your own problems on the backs of the cards or photocopying the blank master we have included for you.

We hope you will share your great problems with us. Send them to :

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Problem
Solving Strategies

1. Act out the problem
2. Use models and manipulatives
3. Make a picture or a diagram
4. Make a table or chart
5. Make an organized list
6. Work backwards
7. Use logical reasoning; deduction
8. Guess and check
9. Use or look for a pattern
10. Solve a simpler problem
11. Write an equation
12. Brainstorm ideas



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